



EFORWOOD

Sustainability Impact Assessment
of the Forestry - Wood Chain



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Synthesis report on impact of forest management on environmental services

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Executive Summary

This document synthesises the impact of forest management on environmental services from forests. Environmental services including biodiversity, soil quality, carbon stock and sequestration, water quality and water quantity are defined by sets of indicators. Focus is on impacts of the single forest management operations on indicators and of typical management alternatives (combinations of operations) on the services.

This report contains both elements of a typical review and a synthesis. We do not intend to review the huge amount of literature in detail for all combinations of forest operations and impacts on indicators. Fortunately, more narrow and detailed reviews are available in the literature for many operations. On the other hand, there are also combinations lacking experimental investigations forcing us to use a generic approach. For the water quantity and carbon sequestration services some modelling exercises have been performed in order to quantify impacts of some operations. More precise descriptions will appear in each of the separate chapters.